WOLF
CARBON SOLUTIONS

Mt. Simon Hub

Public Information Meetings

Who We Are

Wolf Carbon Solutions U.S., LLC (Wolf Carbon Solutions) is an industry leading energy infrastructure company with over **three decades of experience** safely developing and operating pipeline transportation systems.

Our team is comprised of **established veterans** with proven expertise in the pipeline and infrastructure development space and has **safely developed thousands of miles of pipeline** infrastructure over the past 10 years.

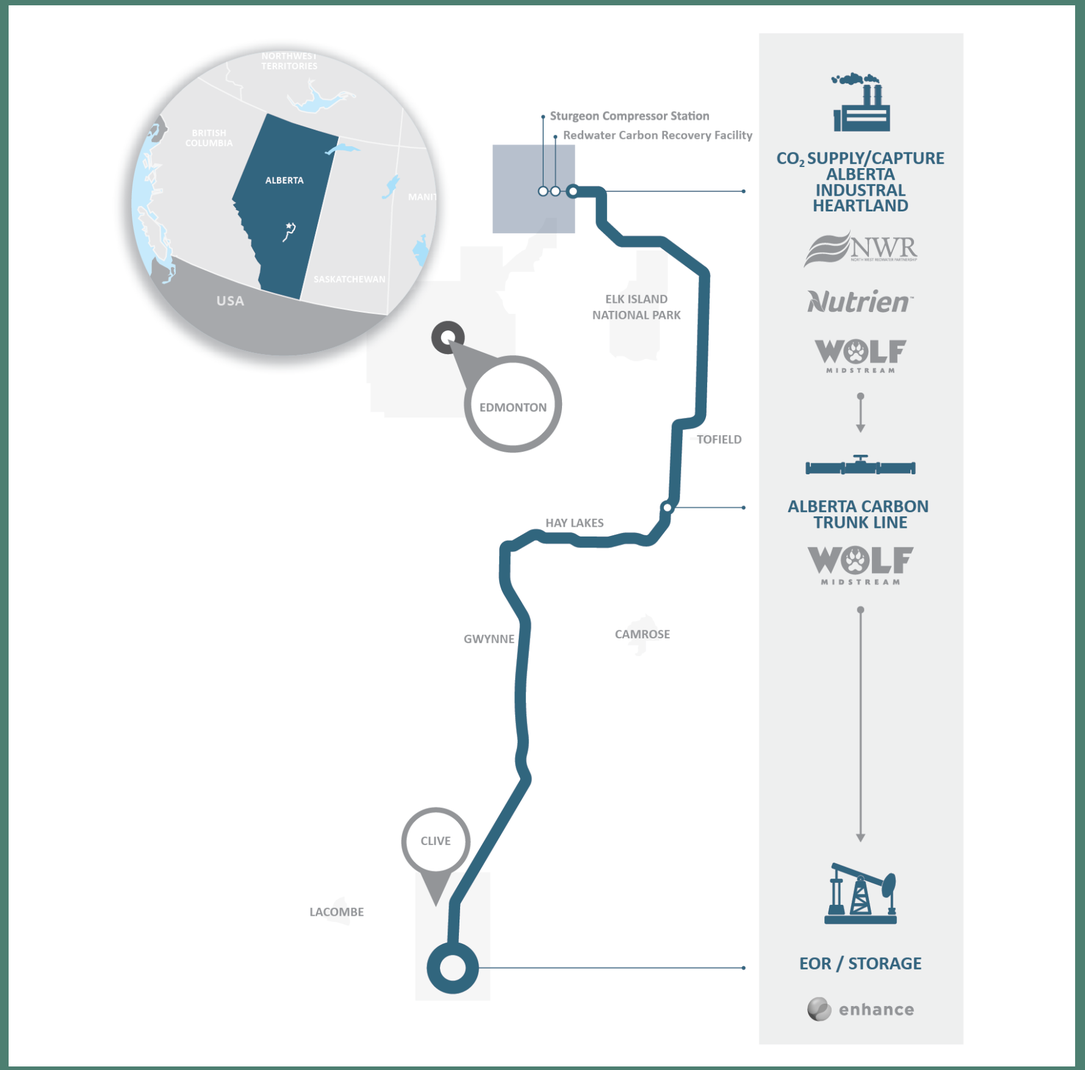
Wolf Carbon Solutions is a **life-of-asset** company, an affiliate of the Canadian energy platform, Wolf Midstream, and **wholly owned and funded by CPP Investments** - a $500B pension fund with a portfolio **that includes multiple U.S. renewable energy assets**.

Our Experience Sets Us Apart

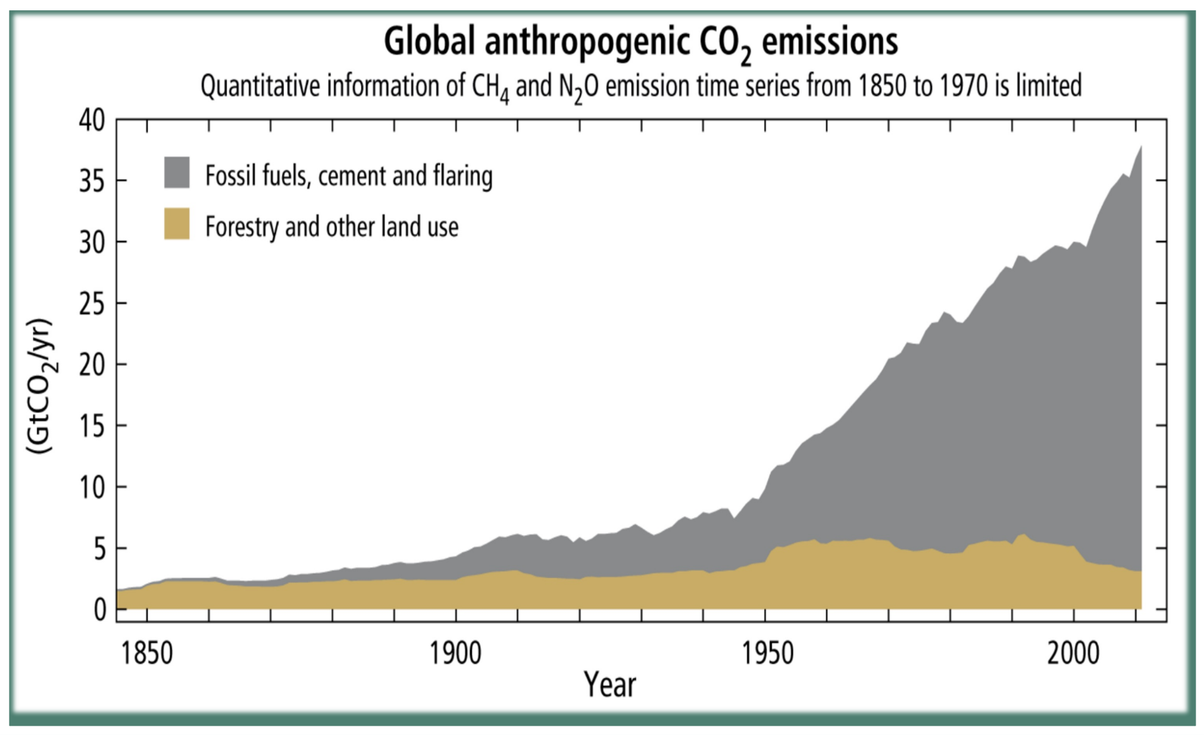
Our affiliate, Wolf Midstream, owns and safely operates the **Alberta Carbon Trunk Line** (ACTL).

- This is the largest third-party carbon dioxide (CO_2) capture system in North America.
- This 150-mile pipeline and capture system entered service in 2020.
- This infrastructure system **has safely captured and transported three million tons of CO_2 to date.** It can transport up to 14.6 million tons of CO_2 per year.

We are proud that the entire ACTL right-of-way (ROW) was **voluntarily negotiated with landowners and rightsholders** without using the right of eminent domain or condemnation.



Iowa Leads the Nation in Ethanol Production



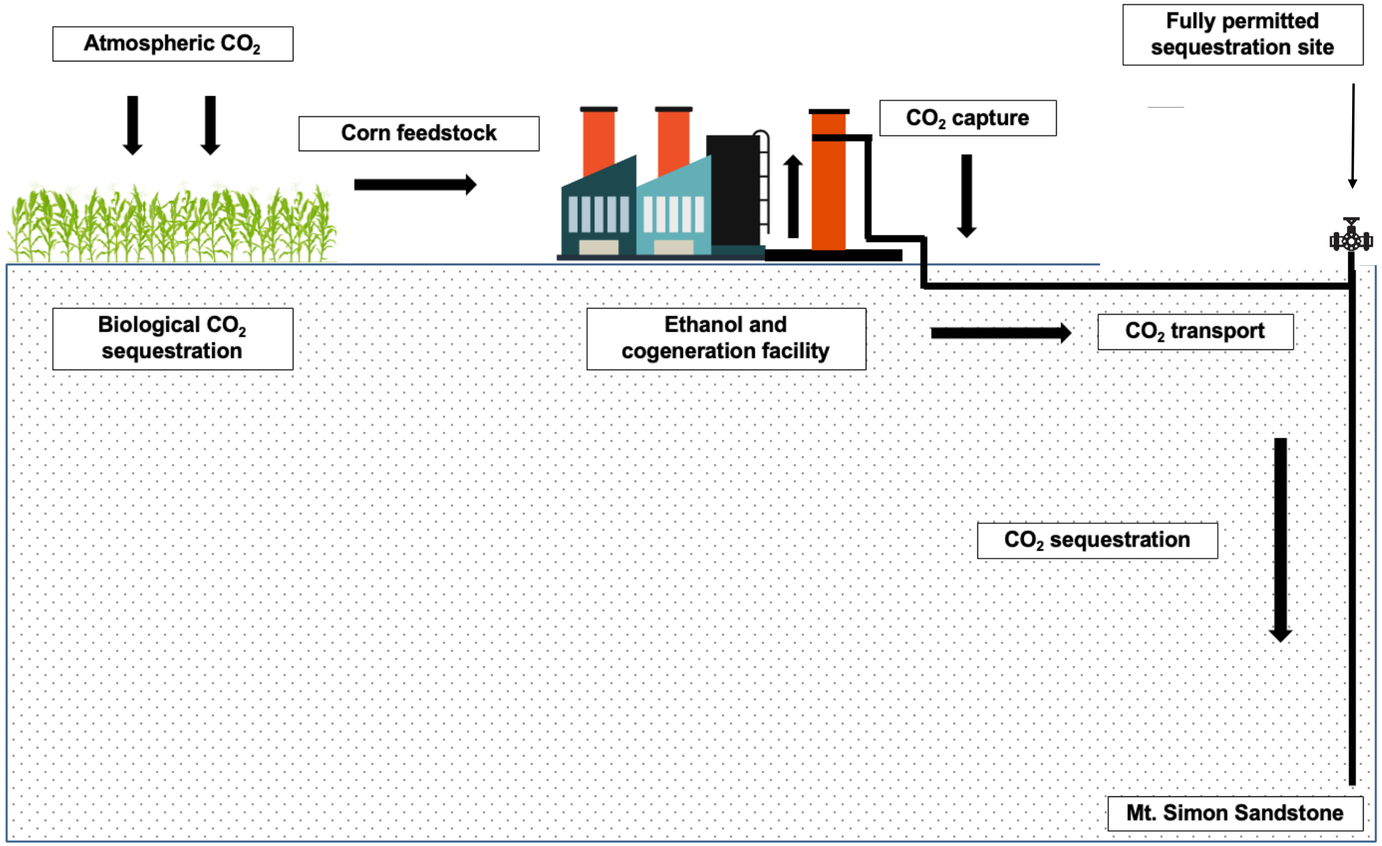
Source: U.N. Intergovernmental Panel on Climate Change
*Source: Goss and Associates

Over 60%* of Iowa's non-food grade corn goes to ethanol production each year.

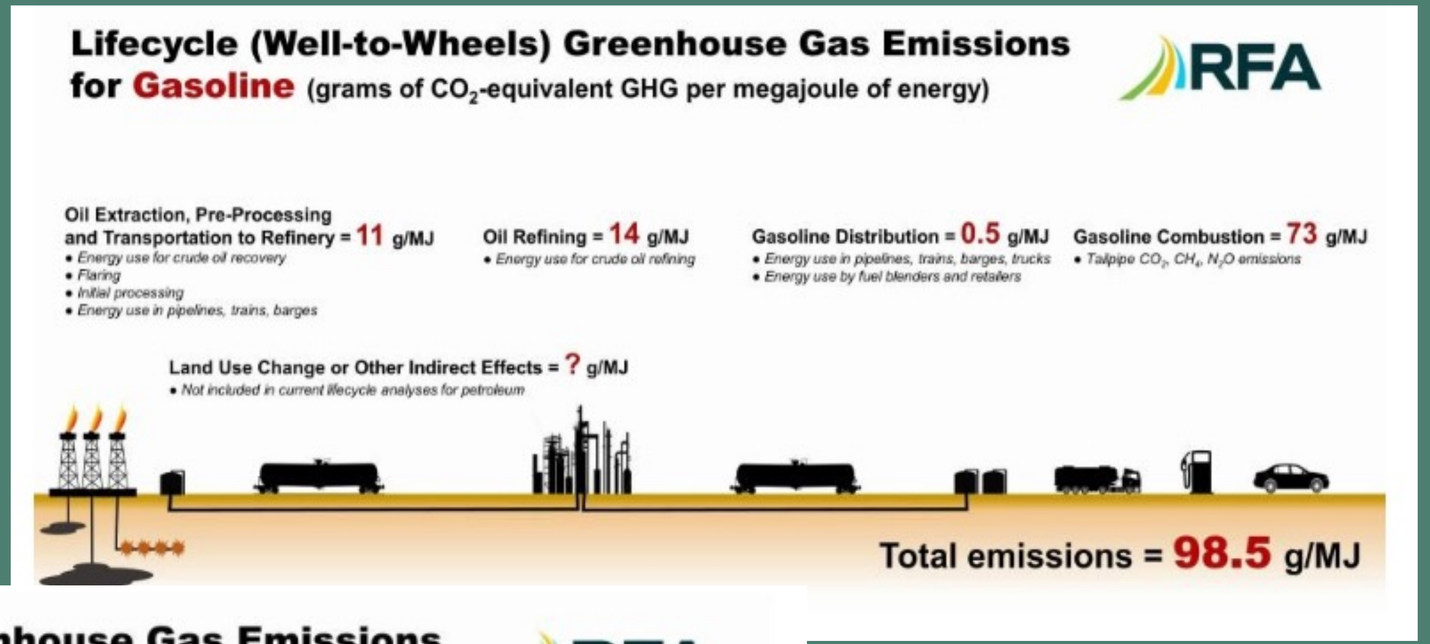
The Mt. Simon Hub lowers the carbon intensity of ethanol, bolstering its position as a premier alternative fuel:

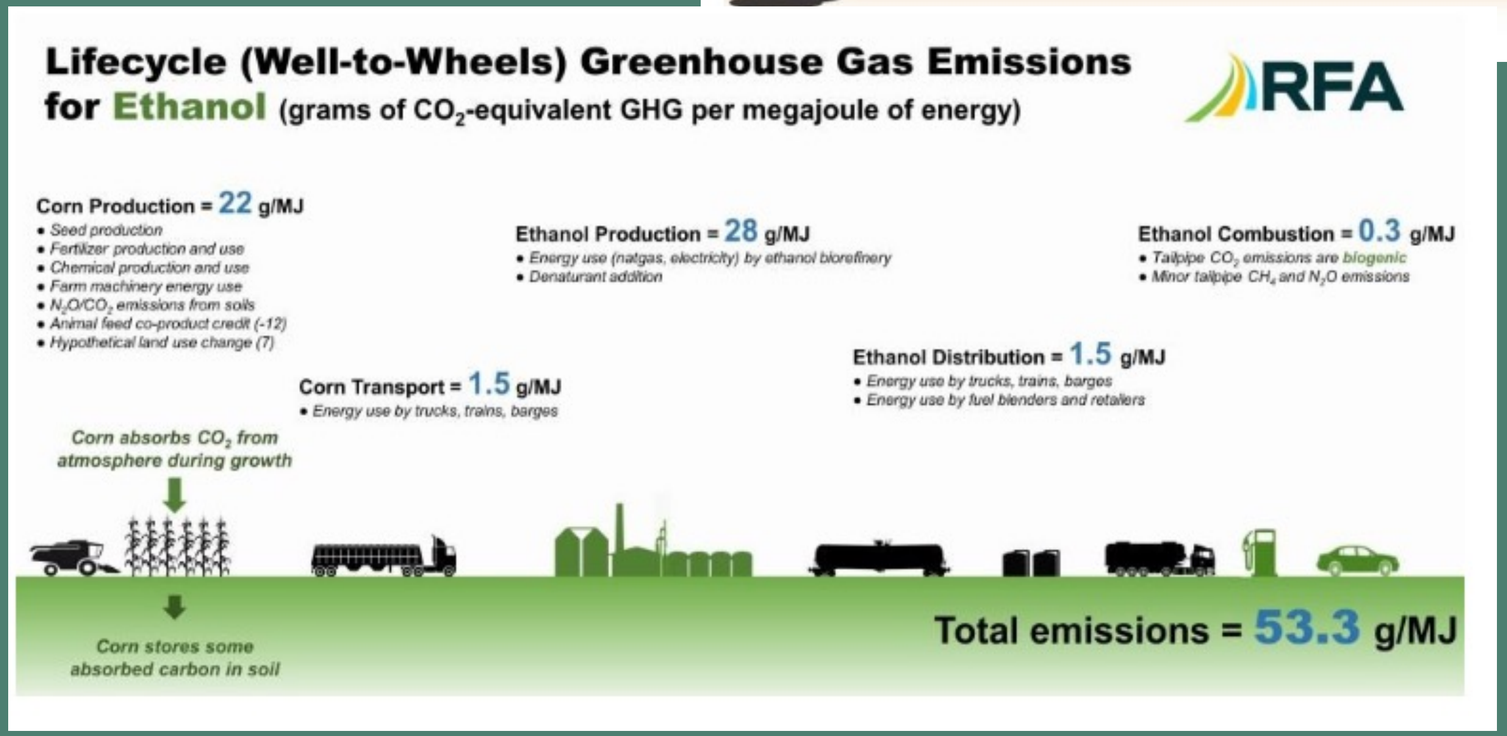
- Supports the sustainability of Iowa agriculture in the long-term
- Helps achieve regional, national and global carbon reduction goals
- Provides significant environmental benefits
- Positions ethanol for attractive export markets and alternative uses like Sustainable Aviation Fuel (SAF)

Combining Agriculture + Infrastructure to Reduce Atmospheric Carbon

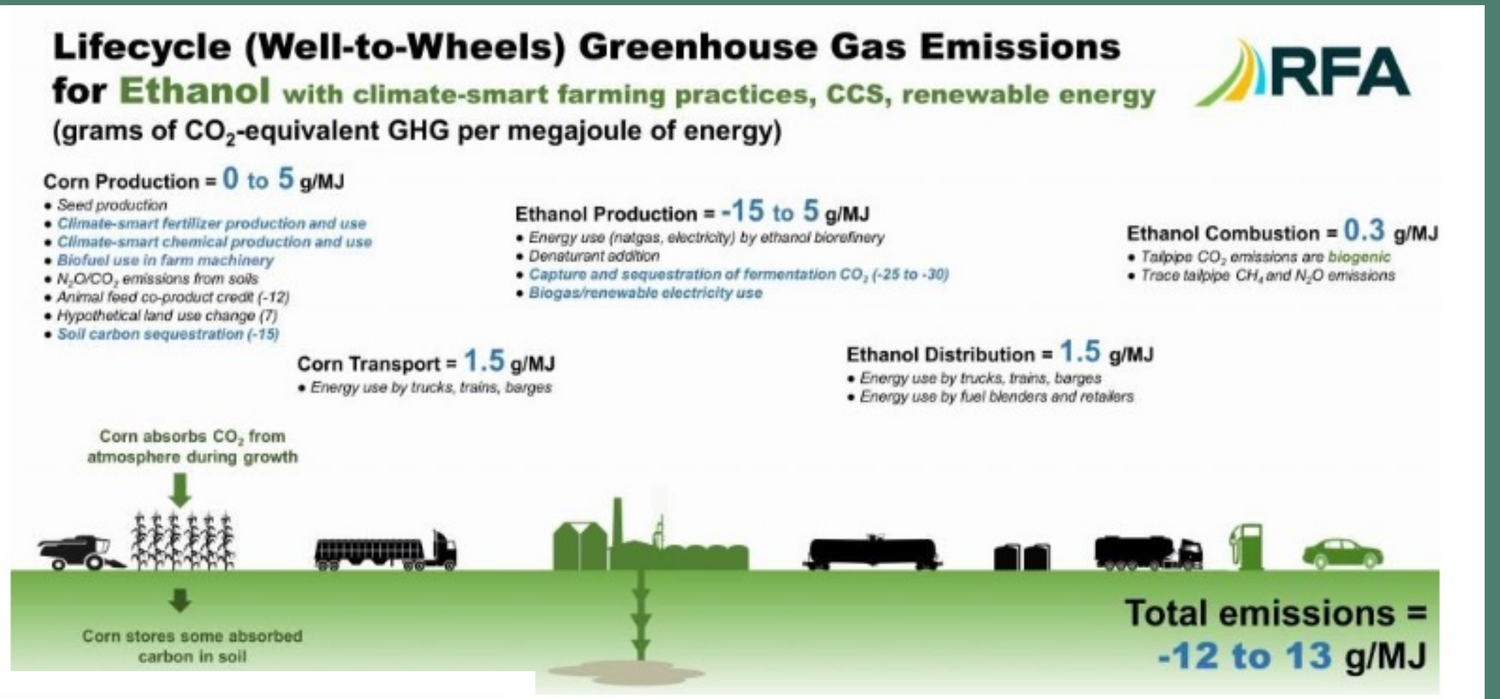


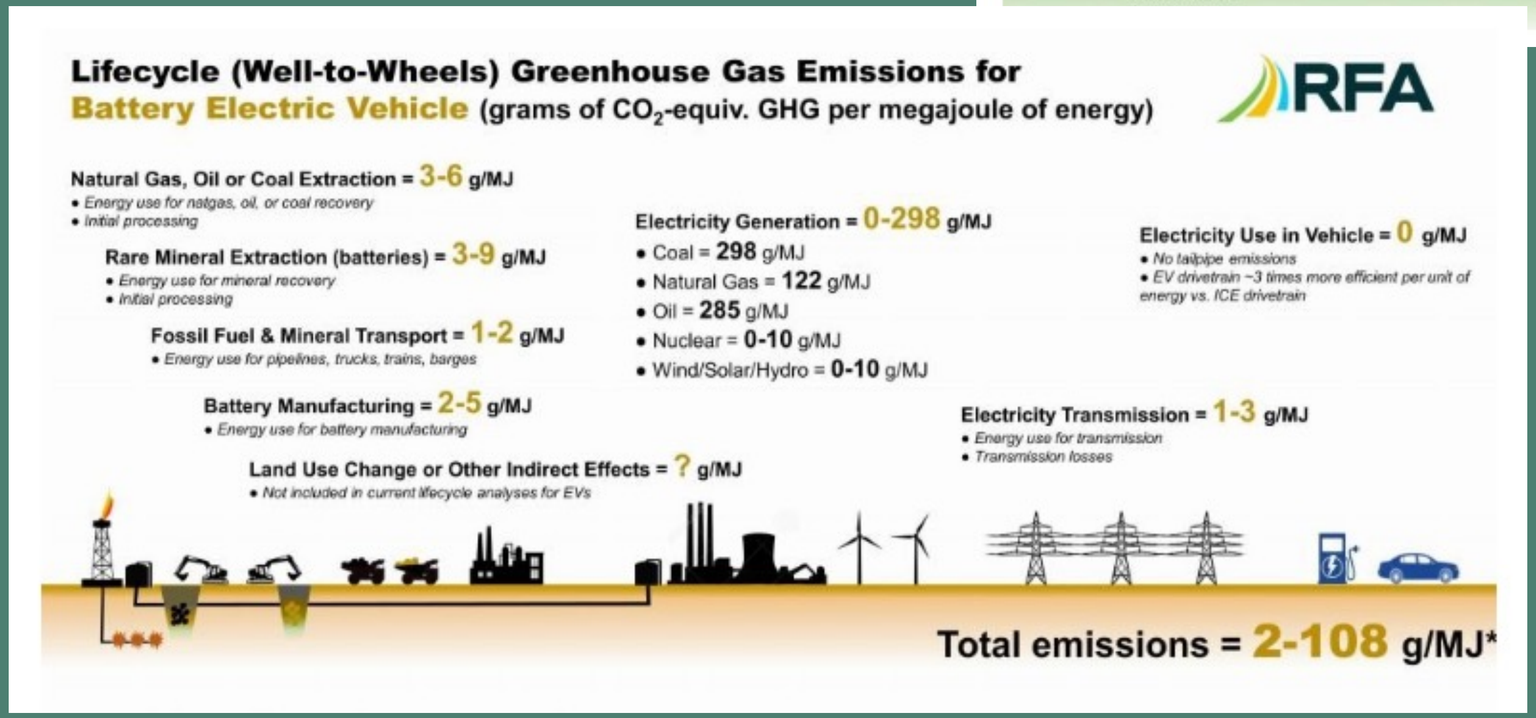
CO_2 Emissions From Ethanol





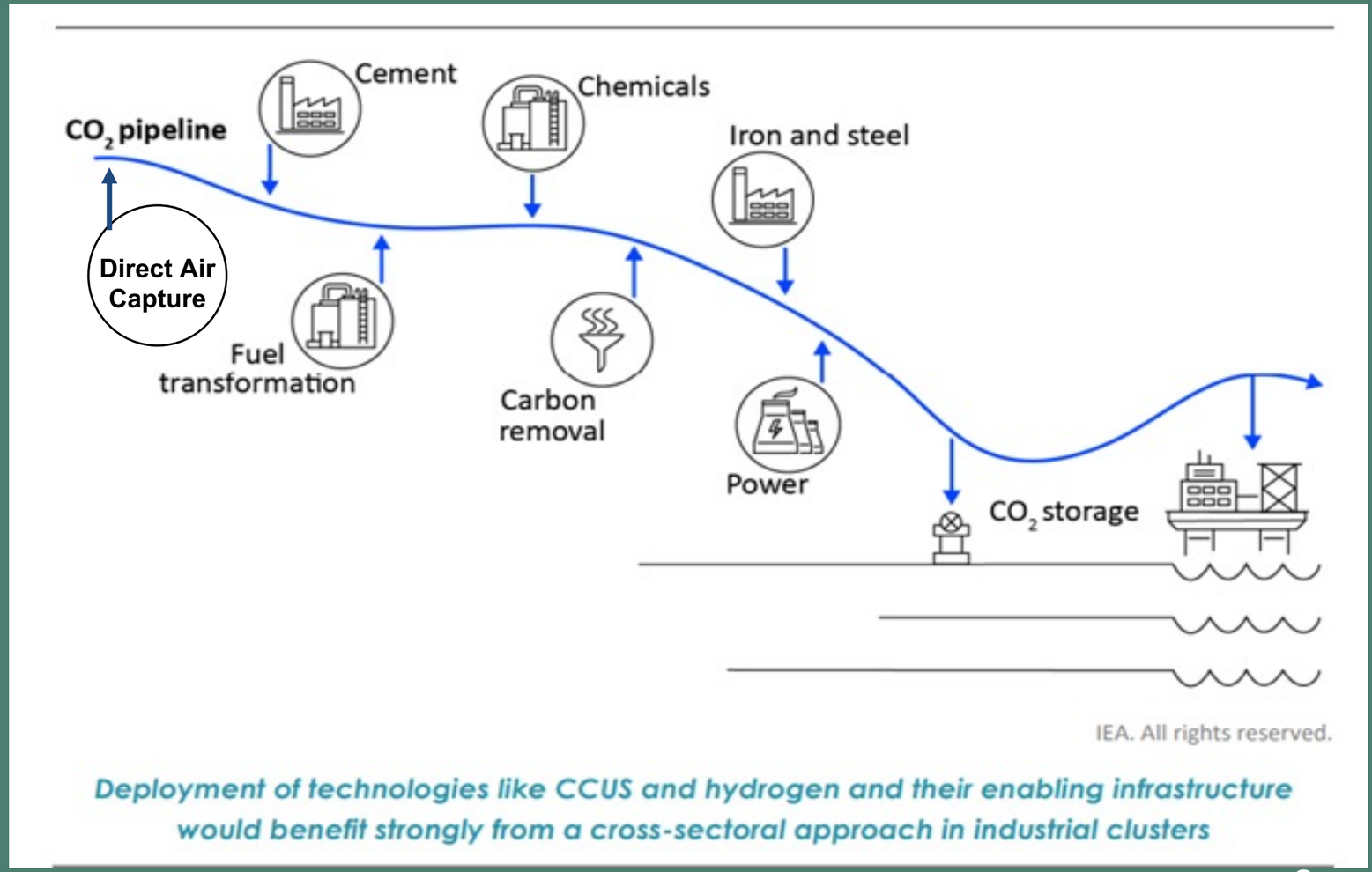
Why Remove CO_2 from Ethanol?





CO_2 Pipelines Serve and Sustain Iowa Industries

- The **demand for industrial products is expected to increase** as economies grow and standards of living rise. To meet this demand, Iowa will need manufacturing solutions that are more climate-friendly than those currently available.
- There is **no other current technology available** that can decarbonize Iowa's larger emitting, but essential, industries like manufacturing, chemicals, and agricultural processing.
- A study from the International Energy Agency (IEA) shows that to limit plant warming to 2 degrees Celsius, carbon capture **contributes 20 percent of necessary emissions reductions annually by 2050**, with half those reductions from industrial processes **that have no other cost-effective way to decarbonize**.



Deployment of technologies like CCUS and hydrogen and their enabling infrastructure would benefit strongly from a cross-sectoral approach in industrial clusters

Preliminary Route Map and Project Schedule

PROJECT SCHEDULE	
Date	**Activity**
Q1 2022	Initial outreach with local communities
Q2 2022	Initiate regulatory approval process
2023	Right-of-Way (ROW) negotiation
Q2 2024	Construction start
2025	Project in-service

Wolf Carbon Solutions| Mt. Simon Hub

County-specific Information

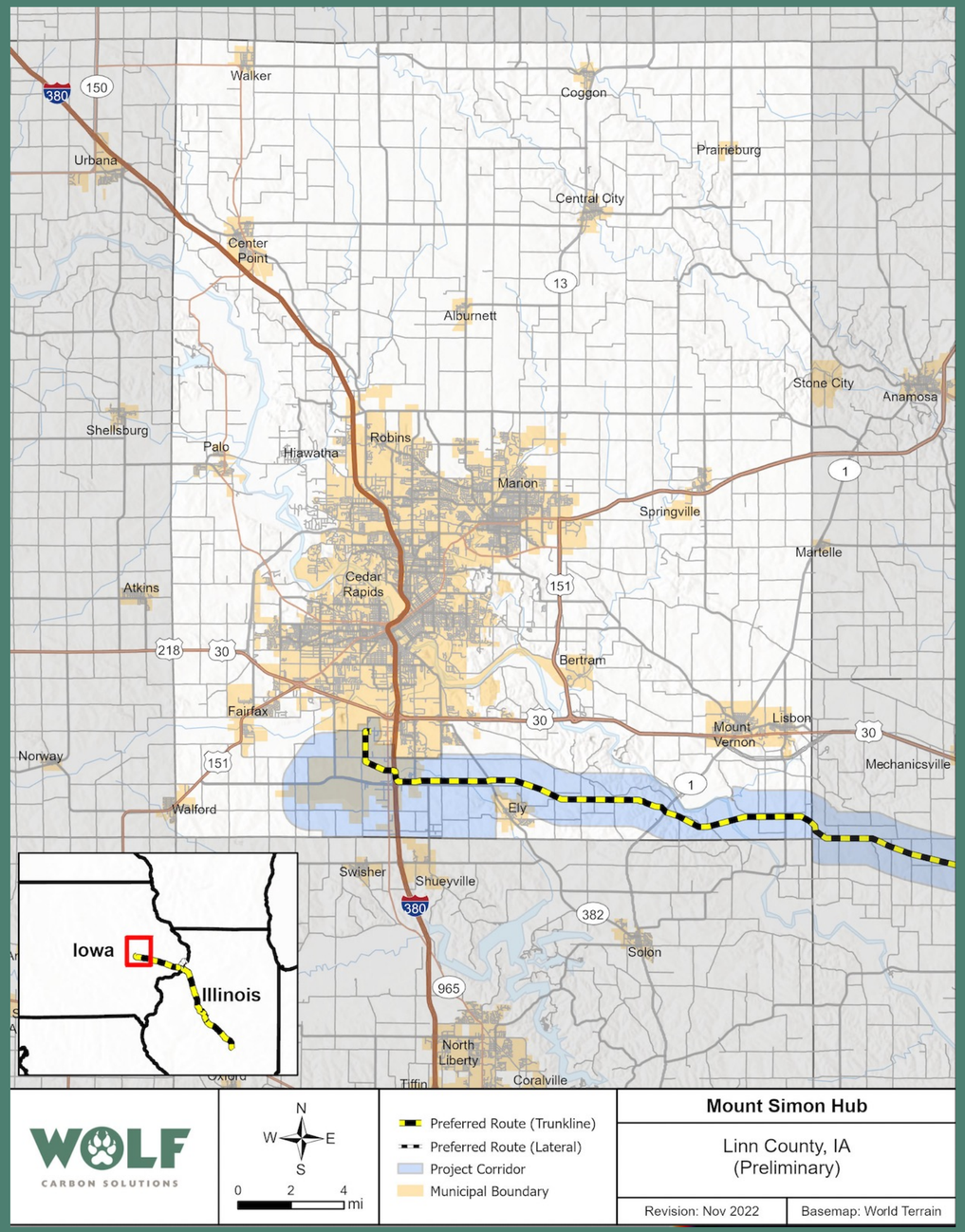
Wolf Carbon Solutions| Mt. Simon Hub

Wolf Carbon Solutions in Linn County

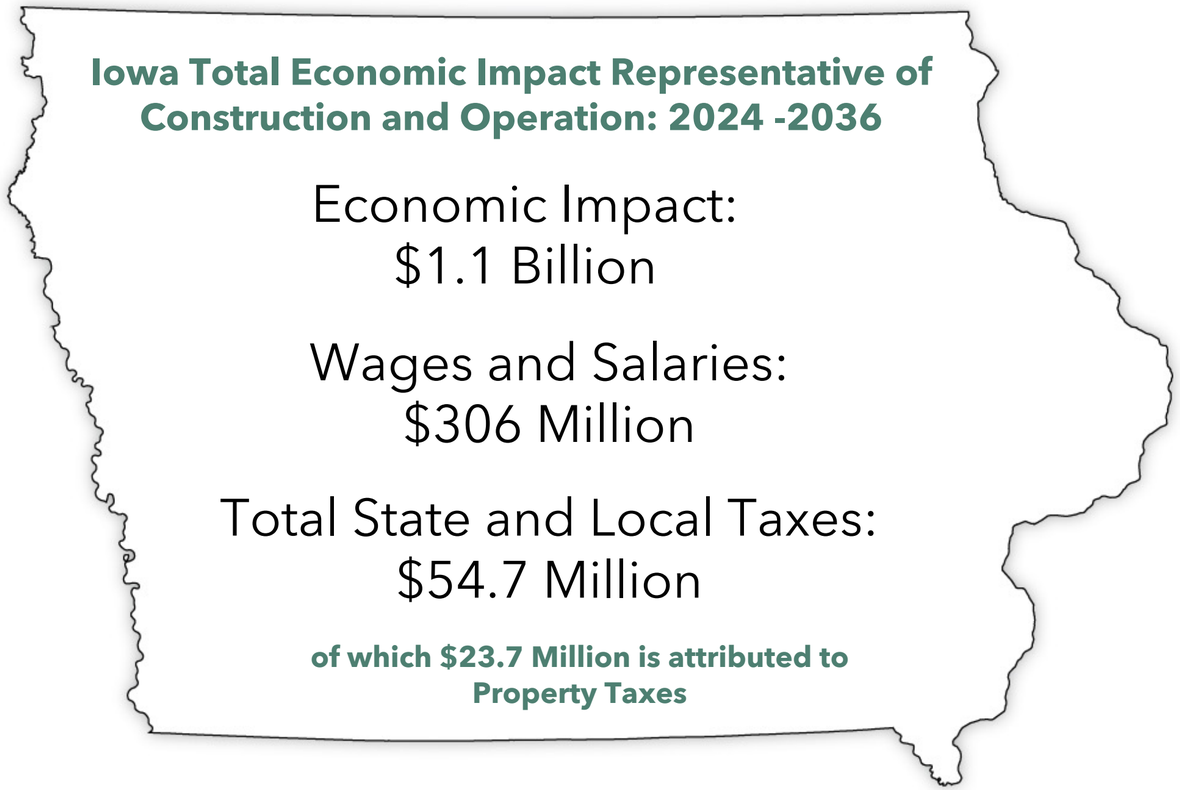
Estimated route miles in Linn County: 19.27

Proposed Corridor:

Wolf has chosen a wide, 2-mile corridor to accommodate landowner feedback in determining the Right-of-way (ROW)



Economic Impact: By the Numbers*



LINN COUNTY

311 estimated jobs in Linn County over an 8-month construction period

$22 Million estimated wages and salaries over an 8-month construction period

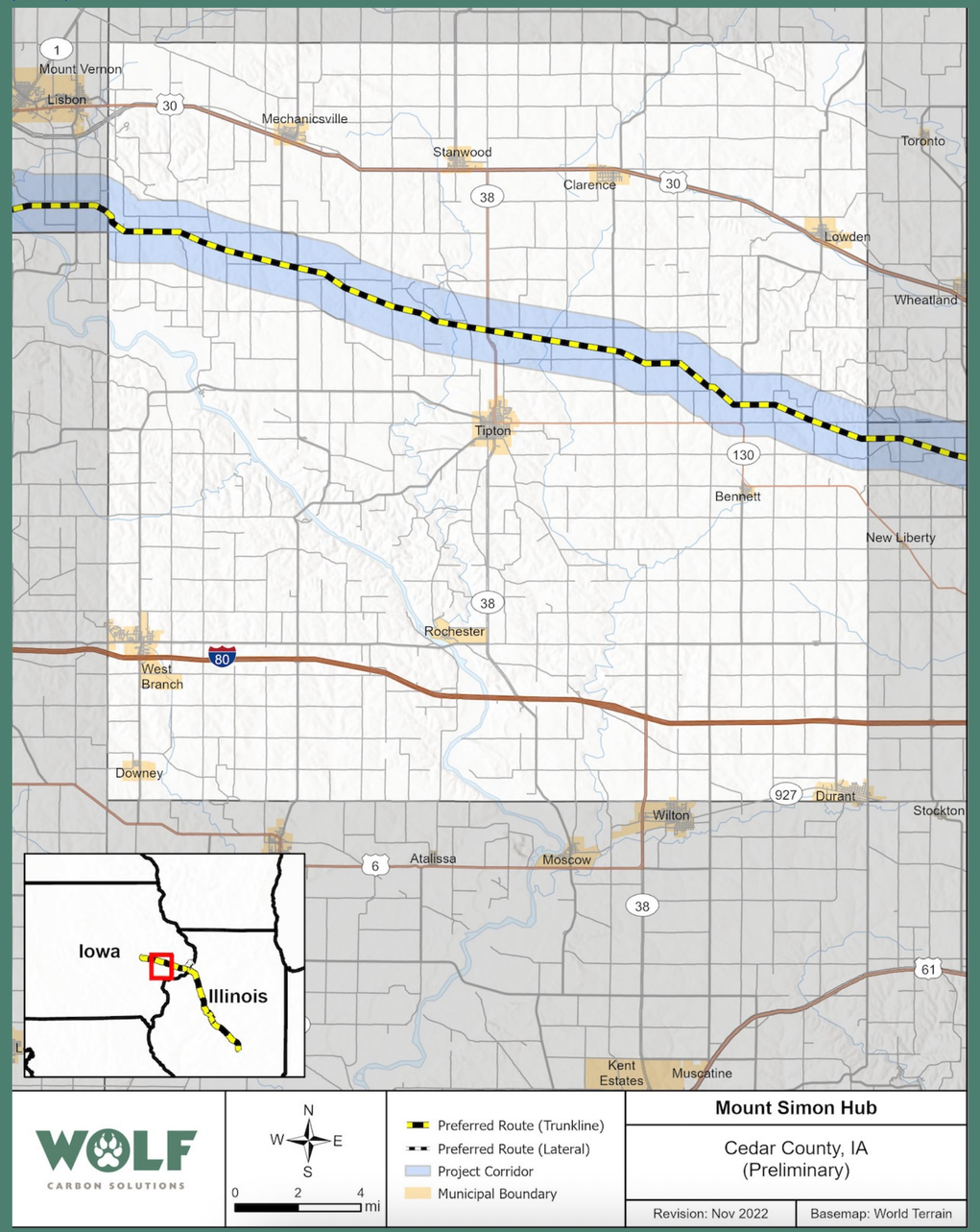
Wolf Carbon Solutions| Mt. Simon Hub

*According to economic analysis performed by Goss & Associates

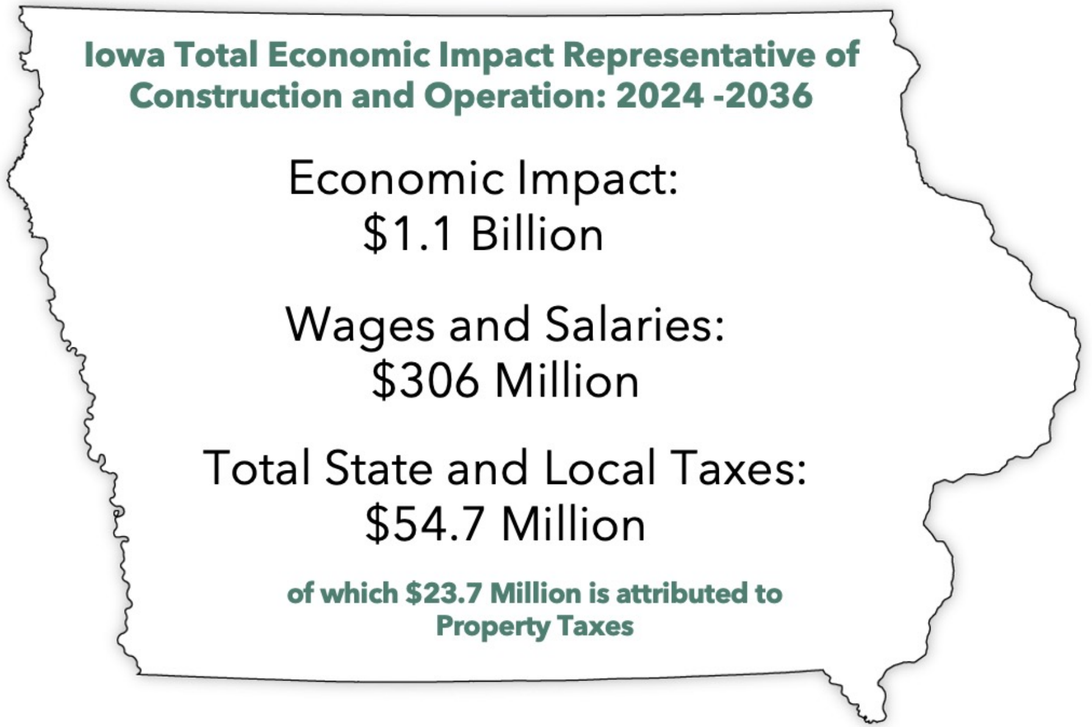
Wolf Carbon Solutions in Cedar County

Estimated route miles: 25.84

Proposed corridor: Wolf has chosen a 2-mile corridor for the pipeline in anticipation of amending the Right of Way (ROW) to accommodate landowner feedback



Economic Impact: By the Numbers*



CEDAR COUNTY · IOWA

232 estimated jobs in Linn County over an 8-month construction period

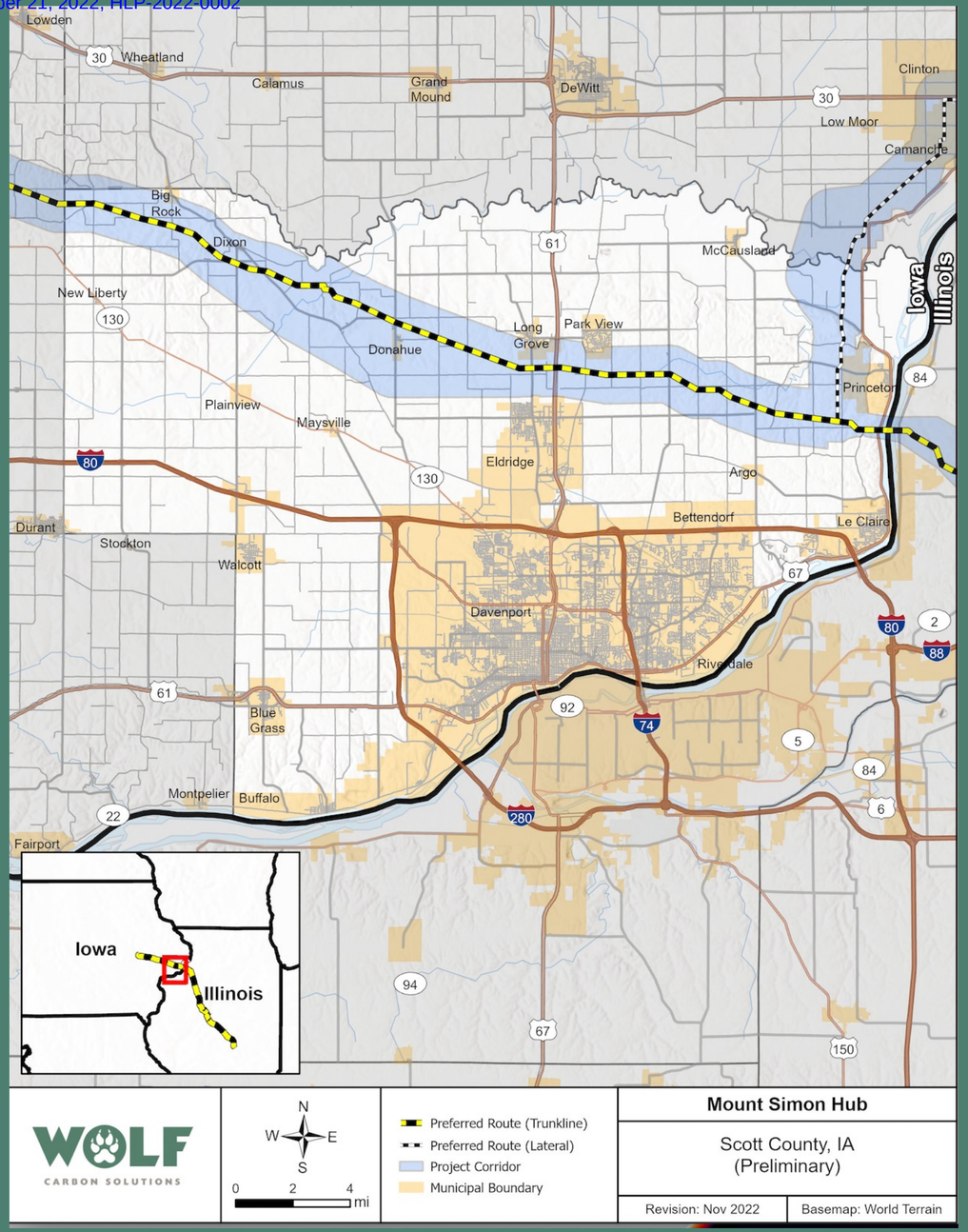
$16 Million estimated wages and salaries over an 8-month construction period

*According to economic analysis performed by Goss & Associates

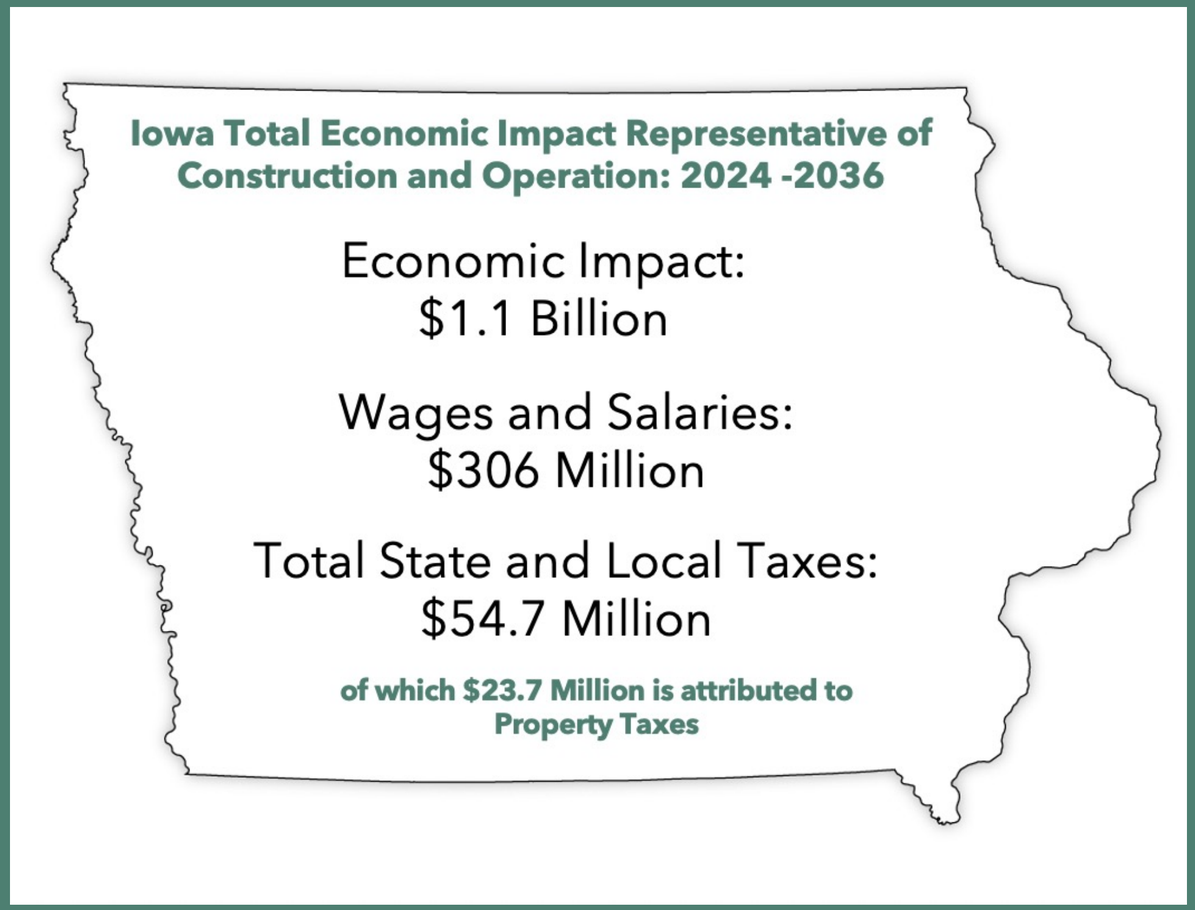
Wolf Carbon Solutions in Scott County

Estimated route miles: 36.14

Proposed corridor: Wolf has chosen a 2-mile corridor for the pipeline in anticipation of amending the Right of Way (ROW) to accommodate landowner feedback



Economic Impact: By the Numbers*



Scott County

434 estimated jobs in Linn County over an 8-month construction period

$30 Million estimated wages and salaries over an 8-month construction period

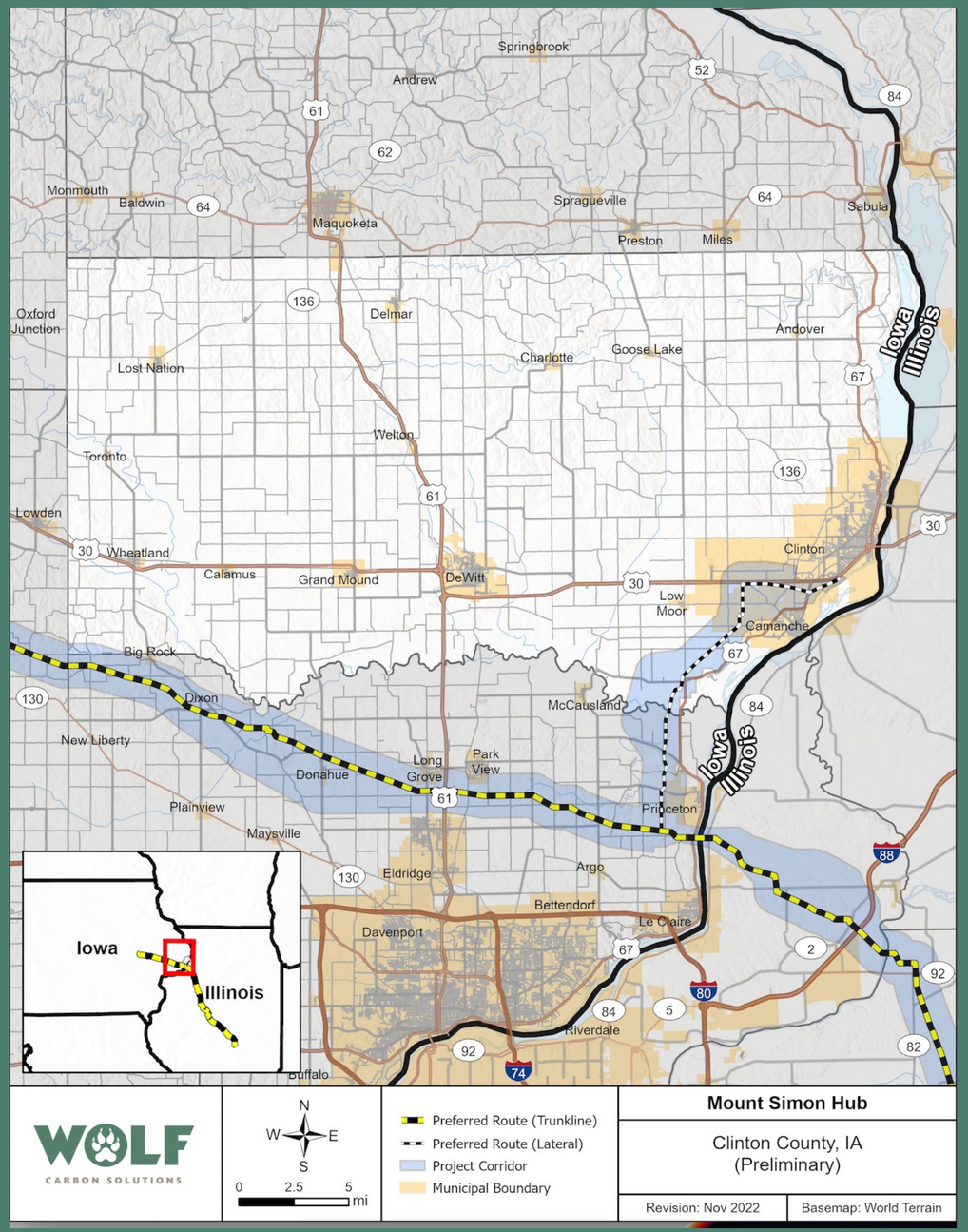
*According to economic analysis performed by Goss & Associates

Filed with the Iowa Utilities Board on November 21, 2022, HLP-2022-0002

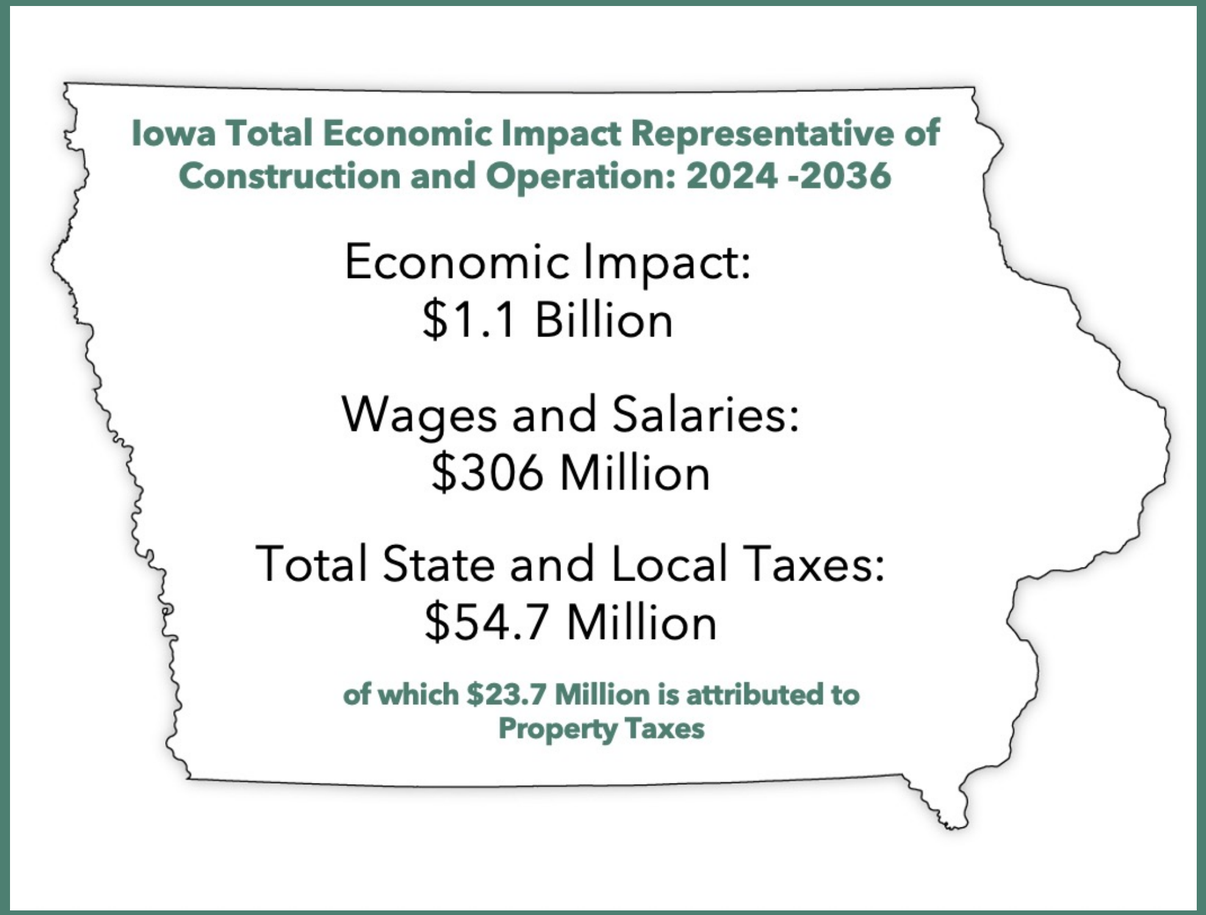
Wolf Carbon Solutions in Clinton County

Estimated route miles: 11.98

Proposed corridor: Wolf has chosen a 2-mile corridor for the pipeline in anticipation of amending the Right of Way (ROW) to accommodate landowner feedback



Economic Impact: By the Numbers*



144 estimated jobs in Linn County over an 8-month construction period

$10 Million estimated wages and salaries over an 8-month construction period

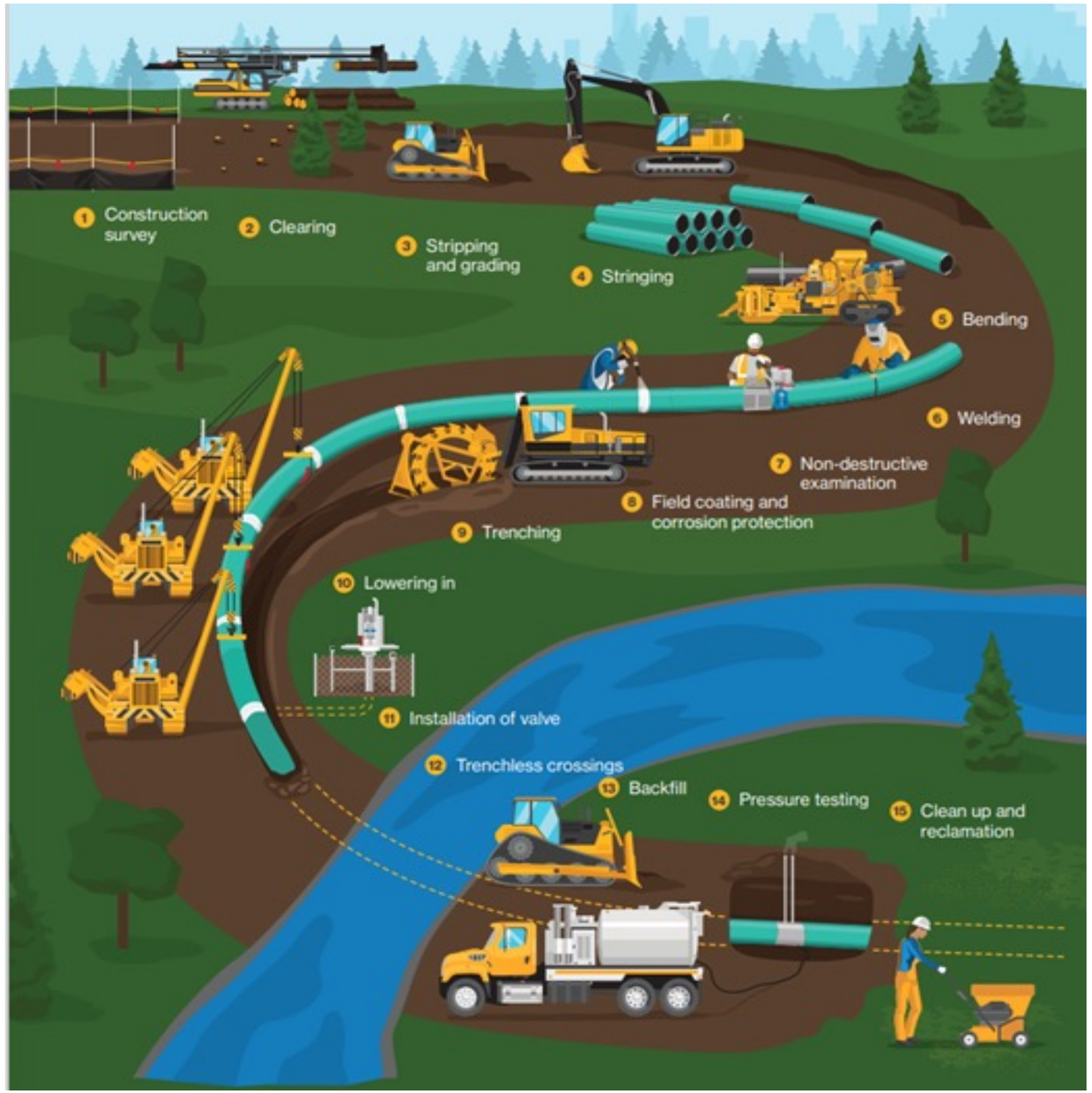
*According to economic analysis performed by Goss & Associates

Phases of Pipeline Development

We Work Safe

Wolf has an uncompromising commitment and respect for health, safety and the environment.

We are committed to a positive and sustainable safety culture that is supported by socially responsible environment, health and safety management practices and effective environmental stewardship programs and public safeguards.



After One Year of Construction

Pipeline Design and Construction

Pipeline Design and Construction Quality Management is focused on:

- **Ensuring integrity** of the pipeline
- **Minimizing impact** of pipeline construction on environment, land quality, and the community
  - Wolf Carbon Solutions' approach to Construction Quality Management will focus on respecting and preserving the unique characteristics of the region, including, but not limited to, deep topsoil, drain tiles, and high-value crops

Pipe Manufacturing

- Chemical composition testing of pipeline material
- Strength testing (tensile, hydrostatic)
- Ductility and toughness testing
- Inspections for defects
- Dimensional tolerances
- External coating inspection

Pipeline Construction

- Rigorous construction specifications
- Qualified welding procedures
- 100% radiographic or ultrasonic inspection of welds
- Joint coating inspections
- Depth of cover survey
- Hydrostatic and leak tests
- Construction damage inspection
- Cathodic Protection System installation

Landowner Engagement Process

- Landowners will receive a call or in-person visit from a designated Right of Way Agent
- Wolf has chosen a 2-mile corridor for the pipeline in anticipation of amending the Right of Way to accommodate landowner feedback
- Landowners can contact Wolf Carbon Solutions directly at mtsimonhub@wolfcarbonsolutions.com or at 800-501-5597 to be connected to an assigned Agent
- An independent third-party company will conduct land value market studies for each County on behalf of Wolf Carbon Solutions
- Right of Way personnel will look at each tract individually to determine any special circumstances that should be taken into consideration during negotiations
- While Wolf Carbon Solutions will provide a basic formula as a starting point for negotiations, we recognize that not all Right of Way costs are identical. Wolf Carbon Solutions is committed to learning about each individual tract of land and the impact that crossing will have

Land Use Compensation

Wolf Carbon Solutions is an **experienced energy infrastructure company** that operates with accountability and respect for our landowners, rightsholders and stakeholder partners.

Our entire ACTL right of way was voluntarily negotiated without using eminent domain or condemnation.

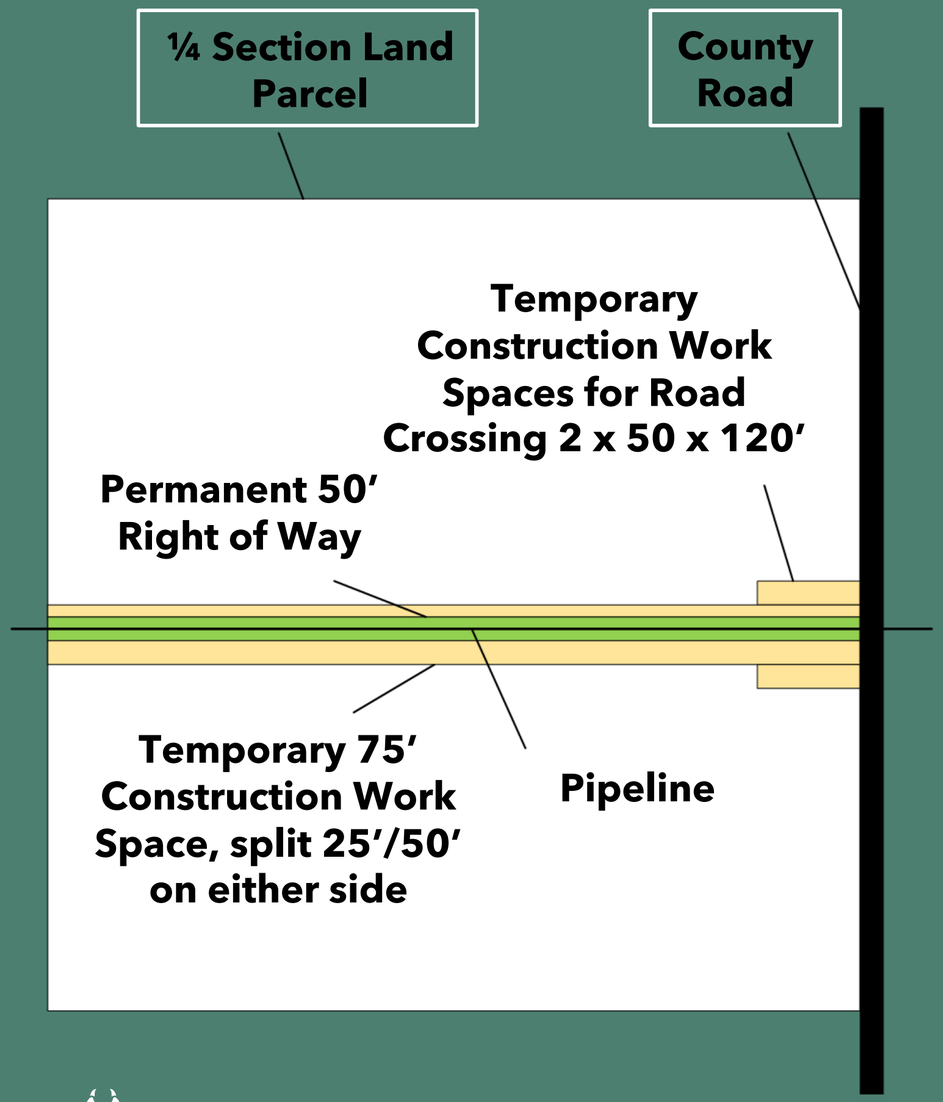
Agricultural and Drain Tile Mitigation

- From route selection through construction and mitigation, Wolf is committed to close collaboration with landowners to minimize impacts to their property and business.
- Our drain tile mitigation plans will be property-specific and serve as a set of guidelines to manage, mitigate and ensure proper restoration of drain tile systems, conducted by a qualified drain tile contractor.

Four-Year Yield Loss Compensation

- Year One: 100% Yield
- Year Two: 80% Yield
- Year Three: 60% Yield
- Year Four: 40% Yield

ROW Configuration Model



Description	Acres	Compensation Model
Permanent Right of Way	3.0 ac	Land Value (based on market assessment or appraisal) •20% upon execution •80% prior to construction
Temporary Work Space	4.8 ac	50% of Land Value •20% upon execution •80% prior to Construction
Crop Damages	7.8 ac	Crop Yield x Market value Year 1 – 100% Year 2 – 80% Year 3 – 60% Year 4 – 40%
Other	Inconvenience, unanticipated construction damages (e.g., fences)	
Reclamation	Wolf Carbon Solutions is responsible for reclamation post-construction, and to monitor and repair post-construction or maintenance issues throughout the operational life of the pipeline. Appropriate crop damages and inconvenience costs provided to landowner	

Environmental Stewardship

The Mt. Simon Hub will be designed, built, maintained and operated with stringent focus on mitigating impacts to sensitive environmental resources, and avoiding, minimizing, and abating impacts to these resources to preserve and protect the environment. Federal agencies regulate environmental related aspects of CO_2 pipelines: the EPA, the U.S Army Corp of Engineers, the US Fish and Wildlife Service and PHMSA. Wolf will also coordinate with the Iowa and Illinois Departments of Natural Resources to manage sensitive resources along the proposed pipeline.

Effective Environmental Planning and Protection

- Agricultural mitigation plan for topsoil management and land restoration to meet or exceed state code.
- Wetlands protection - avoidance where possible and a minimized workspace
- Navigable waterway crossings via trenchless installation technology
- Threatened and endangered species consultations for 100’s of Federal and State species: habitat identification, seasonal surveys, and existing data
- Protection of aquifers, ground water, and municipal water sources
- Storm water management and erosion control
- Clean Air Act compliance
- Cultural resources investigations and surveys to comply with the National Historic Preservation Act

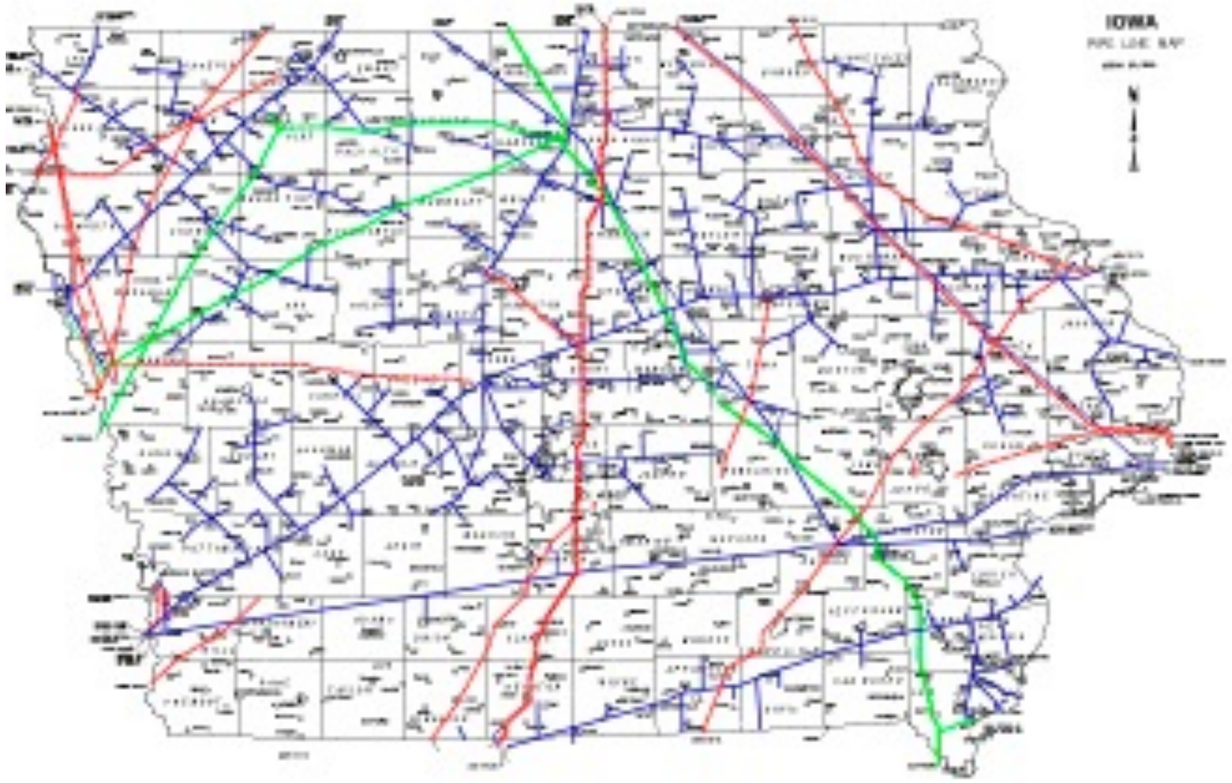
Operations and Maintenance

The Mt. Simon Hub will be regulated by the Pipelines and Hazardous Materials Safety Administration (PHMSA). PHMSA regulates all safety-related aspects of CO_2 pipelines, including design, construction, maintenance and operations.

Regulatory Compliance and Integrity Management - Prevention

- Active PHMSA collaboration and future CO_2 regulation enhancements
- Public Awareness (PA) Programming and continuous stakeholder outreach
- Ongoing operating procedures and operator training specific to CO_2 properties
- Receipt points with remote shut-in, continuously monitored for product quality
- Water removed to minimize the risk of internal corrosion
- Cathodic protection installed to minimize the risk of external corrosion
- Geohazard identification and inspection program
- Damage Prevention Plan, 811 “one call” activation, pipeline markers, and ongoing aerial patrols
- Comprehensive Integrity Management Plan that includes baseline inspections in addition to periodic internal inspections
- Ongoing PHMSA (external) and Wolf (internal) audits and inspections to ensure program effectiveness

Pipelines 101



The map above is representative of all oil, gas and product pipelines traversing Iowa today (source Business Record.).

*Our employees will live, work and recreate in these communities, and we are **committed to developing and maintaining a long-term relationship as your neighbor**.*

Pipelines are the **safest, most reliable and efficient** manner of transporting energy products - - **delivering fuel to our homes, our businesses, providing the basis for the materials that we use every day, and supporting and sustaining the American economy**. .

- There are **over 2.6 million miles pipelines traveling through the U.S. today**, nearly **43,00 miles in Iowa**, providing a vital link between producers and consumers.
- **Over 5,300 miles of these pipelines are carbon capture lines.**
- Statistics gathered by the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration report that pipelines **make up less than one one-hundredth of one percent (.01%)** of all transportation incidents in the United States.
- Once our pipelines are in place, we work to prevent incidents by **evaluating, inspecting and maintaining** pipelines in a program called integrity Management – **detecting and mitigating incidents before they happen**.

Our Commitment to Safety and Response

The Mt. Simon Hub will be regulated by the Pipelines and Hazardous Materials Safety Administration (PHMSA). PHMSA regulates all safety-related aspects of CO_2 pipelines, including design, construction, maintenance and operations.

Effective Safety Plan Execution and Response

- 24/7 control room monitoring and management of our pipeline footprint
- Comprehensive dispersion modeling
- Public Awareness (PA) Programming that includes first responder outreach and ongoing education
- Ongoing first responder training specific to CO_2 properties
- Supplemental support of local responder resources and equipment
- Increased pipe wall thickness near environmentally sensitive areas and population centers
- Best in class leak detection technology
- Remote shut-in valves with a rapid response time
- Emergency Response Programming, national program level execution, comprehensive local responder engagement and continuous exercises and drills
- PHMSA reporting and investigation for all incidents - zero tolerance

Our Commitment to Transparency and Collaboration

While there are multiple Carbon Capture and Storage (CCS) projects proposed in Iowa and Illinois, there is only one Wolf Carbon Solutions, Mt. Simon Hub.

To date, Wolf Carbon Solutions has met with over 100 elected and appointed federal, state and local stakeholders to obtain feedback to support the research and development of the proposed **Mt. Simon Hub**.

Just the Facts

- **Wolf has an established track record as a life-of-asset infrastructure company**
- **Wolf has an established track record developing, constructing and safely operating CCS infrastructure**
- **Wolf has an established track record of voluntary ROW negotiations without the use of eminent domain**
- **Wolf is a dedicated community partner with Iowan, agricultural roots**
- **Wolf's proposed Mt. Simon Hub supports Iowa's agricultural and farm economy, as well as the ethanol supply chain**
- **Wolf is committed to working with an established Public Awareness provider to ensure communication, training and equipment consistency between the company and local first responders**

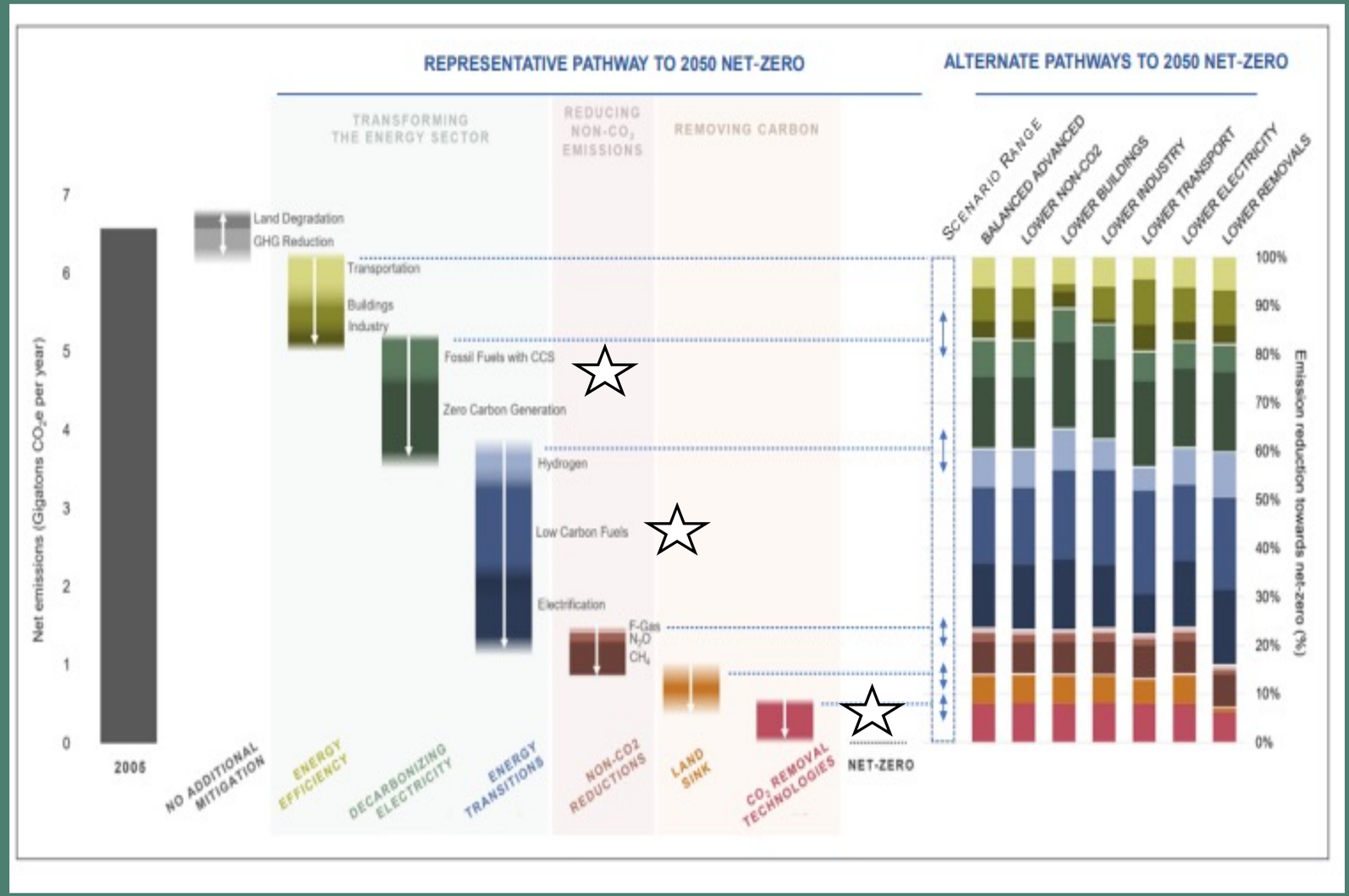
Thank you

Wolf Carbon Solutions| Mt. Simon Hub

Appendix

The Pathway to Net Zero by 2050

- ☆ Carbon Capture and Storage (CCS) plays a significant role in the **United States achieving a net zero economy** – all while creating good paying union jobs and providing clean and reliable energy.



Source: The Long-term Strategy of the United States Pathways to Net Zero Greenhouse Gas Emissions by 2050

CARBON SOLUTIONS

Learn more at **wolfcarbonsolutions.com**